

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

**Name of the Work : Construction of Drain at Maramma Temple
Main Road in Amruthahalli**

Estimate Cost : 19.50 Lakhs

Job Code : 007-12-000054

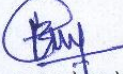
ತಾಂತ್ರಿಕ ವರದಿ

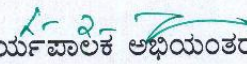
ವಿಷಯ:- Constrictions of RCC Drain at Maramma Temple Main Road in Amruthahalli in ward no. 7 Kodigehalli sub Division ರ ಅಂದಾಜು ಪಟ್ಟಿ ಮಂಜೂರಾತಿ ಕೋರಿ. ಅಂದಾಜು ಮೊತ್ತ: 19.50 ಲಕ್ಷಗಳು, ವರ್ಕ್ ಕೋಡ್:- 007-12-000054

ಮೇಲಿನ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ 2012-13ನೇ ಸಾಲಿನ ಪಿ.ಒ.ಡಬ್ಲ್ಯೂ. ಯೋಜನೆಯಡಿಯಲ್ಲಿ ಈ ಕಾಮಗಾರಿಯು ಅನುಮೋದನೆಗೊಂಡಿದ್ದು, ಸದರಿ ಕಾಮಗಾರಿಗೆ ಸ್ಥಳ ಪರಿವೀಕ್ಷಣೆ ಮಾಡಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು 2011-12ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ ದರದ ಆಧಾರದ ಮೇಲೆ ಈ ಕೆಳಗಿನ ಐಟಂಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ. ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ರಸ್ತೆಯ ಅಭಿವೃದ್ಧಿಗಾಗಿ ಈ ಕೆಳಗಿನ ಐಟಂಗಳನ್ನು ಅವಶ್ಯಕತೆಗೆ ಅನುಗುಣವಾಗಿ ಅಳವಡಿಸಿಕೊಳ್ಳಲಾಗಿರುತ್ತದೆ.

- 1) Earth work excavation
- 2) Removing of BS slab
- 3) Desilting
- 4) Refixing of BS slab
- 5) PCC plain cement concrete
- 6) granite size stone masonry
- 7) RCC Reinforced
- 8) Centering, Steel
- 9) Providing New Granite slab and
- 10) Desposale of Debris

ಈ ಮೇಲ್ಕಂಡ ಅಂಶಗಳನ್ನು ಕಾಮಗಾರಿ ನಿರ್ವಹಿಸಲು ಬೇಕಾದ ಐಟಂಗಳನ್ನು ನಿಗದಿಪಡಿಸಿಕೊಂಡು ಅಂದಾಜುಪಟ್ಟಿಯನ್ನು ರೂ. 19.50 ಲಕ್ಷ ರೂಗಳಿಗೆ ತಯಾರಿಸಲಾಗಿದೆ. ಈಗಾಗಲೇ ಕಾಮಗಾರಿಗಳಿಗೆ Job Code ದೊರೆತಿದ್ದು, ಅಂದಾಜು ಪಟ್ಟಿ ಮಂಜೂರಾತಿ ಪಡೆದು ಆಡಳಿತ/ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ಪ್ರಕ್ರಿಯೆ ಜರೂರಾಗಿರುವುದರಿಂದ ಅಂದಾಜು ಪಟ್ಟಿ ಮಂಜೂರಾತಿಗಾಗಿ ಹಾಗೂ ಮುಂದಿನ ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ ಕಡತದೊಂದಿಗೆ ಸಲ್ಲಿಸಿದೆ.


ಕಿರಿಯ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 7


ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ

**BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE**

**NAME OF WORK:- CONSTRUCTION OF RCC DRAIN AT MARAMA TEPLA MAIN ROAD IN AMRUTHAHALLI IN
WARD NO. 07.KODIGEHALLI SUB DIVISION.**

ESTIMATED COST								1950000.00	
Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
1	KSRRB M300-2: Earth work excavation by manual means in Ordinary Soil involving an average horizontal throw up to 2mts and an average lift up to 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3. (P.No.149, I.No.19.1 of PW,P&I/WD S.R 2011-12) For removing of silt in Existing drain Cum Desilting of drains		2	150.00	0.90	0.60	162.00 162.00	62.86	10182.67 10183.0
	Basic Rate Rs.	58.20							
	Add 8% A.W Rs.	4.66							
	Total Rate Rs.	62.86							
2	Removing BS Slab of drain and stacking. (P.No.28, I.No.5.32 of PW,P&I/WD S.R 2011-12) Sqm For Existing drain sides		2	150.00	1.35	--	405.00 405.00		
	Deduct 40% for missing slabs and unusable	40%	405.00	--	--	--	162.00		
						Net Qty	243.00	47.52	11547.00
	Basic Rate Rs.	44.00							
	Add 8% A.W Rs.	3.52							
	Total Rate Rs.	47.52							
3	Refixing stone slabs of drains and pointing in CM 1:3. (P.No.28, I.No. 5.33 of PW,P&I/WD S.R 2011-12) Qty Same as I.No.2 (for bed slab and covering for remaining portion)	Sqm	--	--	--	--	243.00	59.40	14434.00
	Basic Rate Rs.	55.00							
	Add 8% A.W Rs.	4.40							
	Total Rate Rs.	59.40							
4	KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per specification. (Page No.5 item No.2.3) Culvert drain	Cum	1 2 2	7.00 160.00 99.00	2.00 1.80 1.80	1.20 1.00 1.00	16.80 576.00 356.40 949.20	144.72	137368.00
	Basic Rate Rs.	134.00							
	Add 8% A.W Rs.	10.72							
	Total Rate Rs.	144.72							

5	Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P.No.12, I.No.4.3 of PW,P&IWTD S.R 2011-12)	Cum	1	7.00	2.00	0.15	2.10		
			2	160.00	1.80	0.15	86.40		
			2	99.00	1.80	0.15	53.46		
							141.96	3939.41	559238.00
		Basic Rate Rs.	3647.60						
		Add 8% A.W Rs.	291.81						
		Total Rate Rs.	3939.41						559239.00
6	KSRB - 5.2.3: Providing and constructing granite size stone masonry in foundation cement mortar 1:6, stone hammerdressed in courses not less than 20 cms high, bond stones at two m.apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.No.25, I.No.5.6 of PW, P&IWTD SR 2011-12)	Cum	2	7.00	0.60	1.00	8.40		
							8.40	2827.87	23754.00
		Basic Rate Rs.	2618.40						
		Add 8% A.W Rs.	209.47						
		Total Rate Rs.	2827.87						
7	KSRB - 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with CM 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.119, I.No.15.1 of PW, P&IWTD SR 2011-12)	Sqm	1 X 2	7.00		1.00	14.00		
							14.00	79.73	1116.00
		Basic Rate Rs.	73.82						
		Add 8% A.W Rs.	5.91						
		Total Rate Rs.	79.73						
8	KSRB - 4-1.6: Providing and laying in position plain cement concrete of mix M15 with cement @ 240 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P.No.12, I.No.4.6 of PW, P&IWTD SR 2011-12)		1 X 2	7.00	0.60	0.10	0.84		
			1	7.00	0.35	0.20	0.49		
		Basic Rate Rs.	4131.80				1.33	4462.34	5935.00
		Add 8% A.W Rs.	330.54						
		Total Rate Rs.	4462.34						
9	KSRB M300-53: Construction of embankment with approval material Gravel/Murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (which includes cost of gravel / murum, watering charges & compaction by vibratory roller) (P No. 156 / i 19.60 SR 2011-12)	Cum	1	73.00	1.50	0.20	21.90		
			1	60.00	1.50	0.20	18.00		
							39.90	146.88	5861.00
		Basic Rate Rs.	136.00						
		Add 8% A.W Rs.	10.88						
		Total Rate Rs.	146.88						

10	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC Works laid in 15cms thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3 with all lead and lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed Cement concrete for Beams, Columns Staircase and Roof with M-20 (1:1.5:3) (Cement 320kg/cum) (Page No.19 item No.4.49.1)																																																	
	<table><tr><td></td><td>Cum</td><td></td><td></td><td></td><td></td></tr><tr><td>Culvert</td><td>1</td><td>7.00</td><td>1.80</td><td>0.23</td><td>2.90</td></tr><tr><td>Drain (Sides)</td><td>4</td><td>160.00</td><td>0.75</td><td>0.10</td><td>48.00</td></tr><tr><td>Bouttem</td><td>1</td><td>160.00</td><td>0.60</td><td>0.075</td><td>7.20</td></tr><tr><td></td><td>4</td><td>99.00</td><td>0.75</td><td>0.10</td><td>29.70</td></tr><tr><td></td><td>1</td><td>99.00</td><td>0.60</td><td>0.075</td><td>4.46</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>92.25</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>5001.91</td></tr></table>		Cum					Culvert	1	7.00	1.80	0.23	2.90	Drain (Sides)	4	160.00	0.75	0.10	48.00	Bouttem	1	160.00	0.60	0.075	7.20		4	99.00	0.75	0.10	29.70		1	99.00	0.60	0.075	4.46						92.25						5001.91	461426.2 461441.00
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	<table><tr><td>Basic Rate Rs.</td><td>4631.40</td><td>✓</td></tr><tr><td>Add 8% A.W Rs.</td><td>370.51</td><td></td></tr><tr><td>Total Rate Rs.</td><td>5001.91</td><td>✓</td></tr></table>	Basic Rate Rs.	4631.40	✓	Add 8% A.W Rs.	370.51		Total Rate Rs.	5001.91	✓																																								
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11	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specifications. Specification No KBS 4.6.2. (Page No.17 item No.4.30)																																																	
	<table><tr><td>Culvert</td><td>Sqm</td><td>1</td><td>7.00</td><td>0.60</td><td>4.20</td></tr><tr><td></td><td></td><td>1</td><td>16.00</td><td></td><td>0.25</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>4.00</td></tr><tr><td>Drain</td><td></td><td>4</td><td>160.00</td><td>0.60</td><td>384.00</td></tr><tr><td></td><td></td><td>4</td><td>99.00</td><td>0.60</td><td>237.60</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>629.80</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>291.60</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>183650.00</td></tr></table>	Culvert	Sqm	1	7.00	0.60	4.20			1	16.00		0.25						4.00	Drain		4	160.00	0.60	384.00			4	99.00	0.60	237.60						629.80						291.60						183650.00	
Culvert	Sqm	1	7.00	0.60	4.20																																													
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	<table><tr><td>Basic Rate Rs.</td><td>270.00</td><td>✓</td></tr><tr><td>Add 8% A.W Rs.</td><td>21.60</td><td></td></tr><tr><td>Total Rate Rs.</td><td>291.60</td><td>✓</td></tr></table>	Basic Rate Rs.	270.00	✓	Add 8% A.W Rs.	21.60		Total Rate Rs.	291.60	✓																																								
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12	KSRB 4.9.2: Providing TMT. Steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and /or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (Page No. 19 item No.4.46)																																																	
	<table><tr><td>110% of Qty vide Item No. 11</td><td>Qtl</td><td>89.36</td><td>0.40</td><td>35.74</td></tr><tr><td></td><td></td><td>2.90</td><td>0.80</td><td>2.32</td></tr><tr><td></td><td></td><td></td><td></td><td>38.06</td></tr><tr><td></td><td></td><td></td><td></td><td>7347.82</td></tr></table>	110% of Qty vide Item No. 11	Qtl	89.36	0.40	35.74			2.90	0.80	2.32					38.06					7347.82	279658.0 279661.09																												
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13	Providing and laying 10cms thick precast R.C.C. slabs (DATA RATE)																																																	
	<table><tr><td></td><td>Qtl</td><td>1</td><td>140.00</td><td>1.20</td><td>168.00</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>168.00</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>1500.00</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>252000.00</td></tr></table>		Qtl	1	140.00	1.20	168.00						168.00						1500.00						252000.00																									
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14	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means including loading and unloading. From 0.00 to 5.00 Km (Page No.141)					
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00	Cum				
	Average weight of earth 1.28 tonne / kg for 5X1.28X2.00=12.80 PAGE NO.147	12.80	Qty vide Item No.01 + 04	758.00	81.00	61398.00 ✓
	Add loading and unloading Vide item no.17.1 P.no.141	62.20 ✓				
		75.00				
	Area Weightage @ 8%	6.00				
	Total	81.00 ✓				
15	Miscellaneous & Rounding off					6653.00
	Toatl Rs.					1950000.00

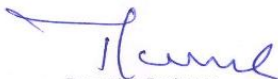
(Rupees:- Nineteen Lakhs Fifty thousand Only)

CERTIFICATE:

- 1 The work spot has been inspected me and the work is found to be necessary.
- 2 The estimate is prepared as per PW, P&I/WT D S.R Bangalore circle for the year 2011-2012.
- 3 The Provisions made in the estimate are quite necessary and adequate.
- 4 The area comes with in the BBMP limits.


Assistant Engineer
Ward No. 07


Assistant Executive Engineer
Kodigehalli Sub Division
BBMP


Executive Engineer
Byatarayanapura Division
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs. 19,50,000.00/-

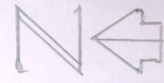
Rupees Nineteen Lakhs Fifty
Thousand only.
Under P-1771 P.O.W. 11-12

Registered as EE (Y) No. 12-12
Subject to conditions contained in
enclosed memo EE (Y) No. 194 / 11-12
Dt. 14/5/12 Estimate A/Sanctioned
Jc 17.1 / AA 12-13 No. 194
dated 14/5/12 Rs. 19,50,000.00/-

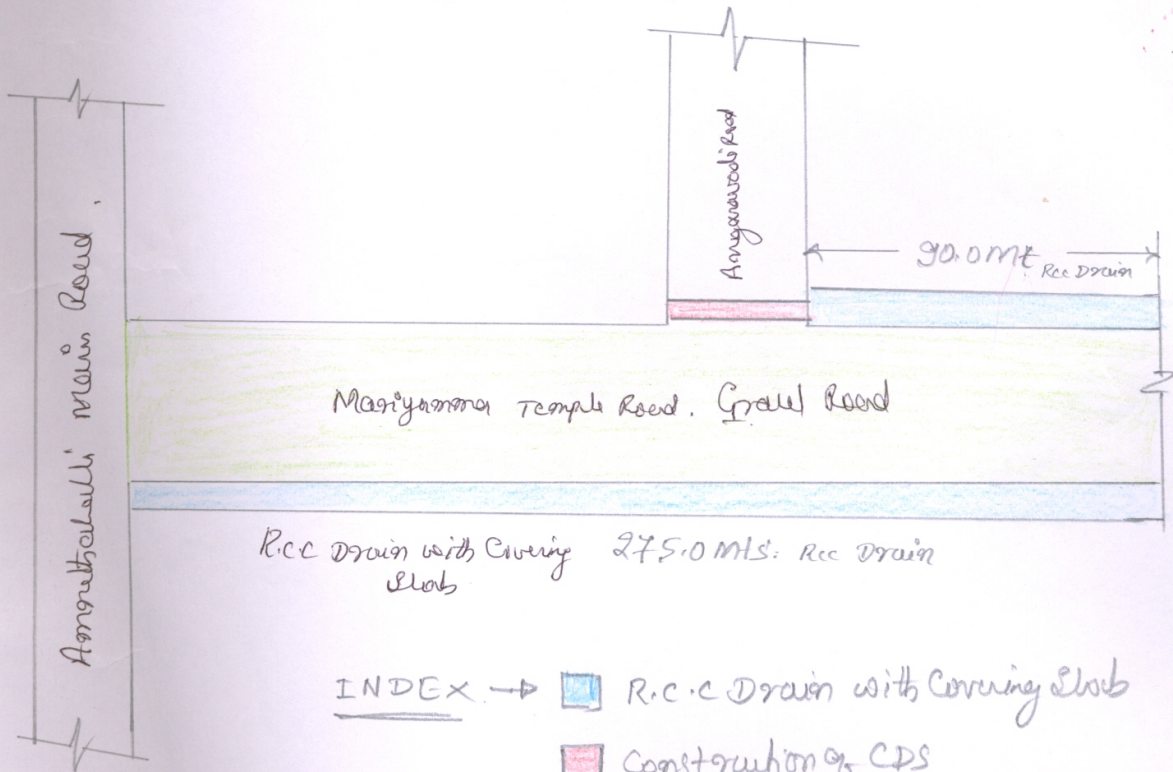

Commissioner
(Byatarayanapura)

Technical Sanction for Rs. <u>19,50,000.00/-</u>	
<u>Nineteen Lakhs Fifty</u>	
<u>Thousand only</u>	
under <u>P-1771 P.O.W. 11-12</u>	
registered as EE No: <u>89</u> / <u>15-5-12</u> Subject	
to conditions contained enclosed memo,	
No: <u>89 / 12-13</u>	Dr. <u>15-5-12</u>
AE/JE	EE (BTP. Div.)

Name & Work: Construction of Rcc Drain at
 Masigamanna Temple main Road in
 Ananthahalli ward no 7 Byatara
 - yelahanka



NOT-TO-SCALE



- INDEX →
- R.c.c Drain with Covering Slab
 - Construction of CDS
 - Gravelly Road.

(Signature)
 Mr. J. S. J. up

(Signature)

(Signature)
 Assistant Executive Engineer.
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.